



EXPRESS MAIL NO. EV719380755US

Sheet 1 of 5

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 890050.436	APPLICATION NO. 10/637,407
	APPLICANTS Masaki Aoshima et al.	
	FILING DATE August 7, 2003	GROUP ART UNIT 1756

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>u</i>	AA	5,185,733	02/09/93	Finkelstein et al.	369	54	
<i>u</i>	AB	5,328,813	07/12/94	Strandjord et al.	430	321	
<i>u</i>	AC	5,511,057	04/23/96	Holtslag et al.	369	94	
<i>u</i>	AD	5,560,998	10/01/96	Oyamatsu et al.	428	694 ML	
<i>u</i>	AE	5,583,643	12/10/96	Gass et al.	356	445	
<i>u</i>	AF	5,818,808	10/06/98	Takada et al.	369	116	
<i>u</i>	AG	5,875,169	02/23/99	Hatwar	369	272	
<i>u</i>	AH	5,949,747	09/07/99	Miyashita et al.	369	54	
<i>u</i>	AI	5,958,649	09/28/99	Hirotsune et al.	430	270.13	
<i>u</i>	AJ	6,187,406	02/13/01	Ichihara et al.	428	64.1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>u</i>	AK	62-16193	01/24/87	JP (+ Abstract in English)		
<i>u</i>	AL	62-28941	02/06/87	JP (+ Abstract in English)		
<i>u</i>	AM	37 41 910 A1	06/23/88	DE (+ Abstract in English)		
<i>u</i>	AN	63-299984	12/07/88	JP (+ Abstract in English)		
<i>u</i>	AO	1-270528	10/27/89	JP (+ Abstract in English)		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>u</i>	AP	Kikukawa, T., et al., "Rigid Bubble Pit Formation and Huge Signal Enhancement in Super-Resolution Near-Field Structure Disk with Platinum-oxide Layer," Applied Physics Letters 81(25):4697-4699.
	AQ	Kim, J., et al., "50nm Signal Writing and Retrieve by PtOx Type S-RENS Disk in Blue Laser Optical System," Extended Abstracts, 63rd Meeting The Japan Society of Applied Physics, Abstract No. 27a-YD-4, p. 1005, September 2002.

EXAMINER

DATE CONSIDERED

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>u</i>	BA	6,221,455	04/24/01	Yasuda et al	428	64.1	
<i>u</i>	BB	6,278,680	08/21/01	Miyauchi et al.	369	112.01	
<i>u</i>	BC	6,404,712	06/11/02	Lee et al.	369	47.53	
<i>u</i>	BD	6,404,713	06/11/02	Ueki	369	47.53	
<i>u</i>	BE	6,416,837	07/09/02	Kojima et al.	428	64.1	
<i>u</i>	BF	6,511,788	01/28/03	Yasuda et al.	430	270.13	
<i>u</i>	BG	6,611,481	08/26/03	Koishi et al.	369	47.53	
<i>u</i>	BH	6,660,451	12/09/03	Sakaue et al.	430	270.13	
<i>u</i>	BI	6,670,014	12/30/03	Nishihara et al.	428	64.1	
<i>u</i>	BJ	6,791,926	09/14/04	Furumiya et al.	369	53.13	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>u</i>	BK	3-5929	01/11/91	JP (+ Abstract in English)		
<i>u</i>	BL	3-49054	03/01/91	JP (+ Abstract in English)		
<i>u</i>	BM	4-298389	10/22/92	JP (+ Abstract in English)		
<i>u</i>	BN	5-159358	06/25/93	JP (+ Abstract in English)		
<i>u</i>	BO	5-342631	12/24/93	JP (+ Abstract in English)		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>u</i>	BP	Kim, J., et al., "Random Pattern Signal Characteristics of Super-RENS Disk at Blue Laser System," Technical Digest of Optical Data Storage Topical Meeting, pp. 273-275, 2004.
<i>u</i>	BQ	Kim, J., et al., "Signal Characteristics of Super-RENS Disk at Blue Laser System," Technical Digest of International Symposium on Optical Memory, Fr-J-01:264-265, 2003.
	BR	Kim, J., et al., "Super-Resolution by Elliptical Bubble Formation with PtOx and AgInSbTe Layers," Applied Physics Letters, 83(9):1701-1703, September 1, 2003.

EXAMINER	DATE CONSIDERED
<i>u</i>	<i>11/2/05</i>

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>u</i>	CA	6,929,840	08/16/05	Hosoda et al.	428	64.1	
<i>m</i>	CB	7,018,694	03/28/06	Hosoda et al.	428	64.1	
<i>u</i>	CC	2001/0017833	08/30/01	Yamada et al.	369	59.11	
<i>u</i>	CD	2001/0041304	11/15/01	Uno et al.	430	270.13	
<i>u</i>	CE	2002/0168587	11/14/02	Sakaue et al.	430	270.13	
<i>u</i>	CF	2003/0081523	05/01/03	Miyagawa et al.	369	59.11	
<i>u</i>	CG	2003/0228539	12/11/03	Hosoda et al.	430	270.13	
<i>u</i>	CH	2004/0013069	01/22/04	Uno et al.	369	59.11	
<i>u</i>	CI	2004/0139459	07/15/04	Mishima et al.	720	718	
<i>u</i>	CJ	2004/0174796	09/09/04	Mizushima et al.	369	94	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>u</i>	CK	5-342635	12/24/93	JP (+ Abstract in English)		
<i>u</i>	CL	6-243507	09/02/94	JP (+ Abstract in English)		
<i>u</i>	CM	6-262854	09/20/94	JP (+ Abstract in English)		
<i>u</i>	CN	6-274922	09/30/94	JP (+ Abstract in English)		
<i>u</i>	CO	7-235465	09/05/95	JP (+ Abstract in English)		

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>u</i>	CP	Narumi, K. et al., "45GB Rewritable Dual-Layer Phase-Change Optical Disk With A Transmittance Balanced Structure", Technical Digest, International Symposium on Optical Memory 2001, Grand Hotel, Taipei, Taiwan, October 16-19, 2001, pages 202 & 203.
	CQ	Nikkei Electronics, May 12, 2003, pp. 119-133.

EXAMINER <i>u</i> <i>m</i>	DATE CONSIDERED <i>11/9/06</i>
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>W</i>	DA	2004/0190435	09/30/04	Hosoda et al.	369	283	
<i>W</i>	DB	2005/0094526	05/05/05	Kakiuchi et al.	369	59.11	
<i>W</i>	DC	2005/0243676	11/03/05	Kato et al.	369	59.11	
<i>W</i>	DD	2006/0013111	01/19/06	Inoue et al.	369	125	
	DE						
	DF						
	DG						
	DH						
	DI						
	DJ						

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		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>W</i>	DK	8-124165	05/17/96	JP (+ Abstract in English)		
<i>W</i>	DL	9-7176	01/10/97	JP (+ Abstract in English)		
<i>W</i>	DM	2000-187842	07/04/00	JP (+ Abstract in English)		
<i>W</i>	DN	2000-222764	08/11/00	JP (+ Abstract in English)		
<i>W</i>	DO	2000-285509	10/13/00	JP (+ Abstract in English)		
<i>W</i>	DP	2000-297365	10/24/00	JP (+ Abstract in English)		
<i>W</i>	DQ	2001-222819	08/17/01	JP (+ Abstract in English)		
<i>W</i>	DR	2001-322357	11/20/01	JP (+ Abstract in English)		
<i>W</i>	DS	2001-344823	12/14/01	JP (+ Abstract in English)		
<i>W</i>	DT	WO 02/29787 A1	04/11/02	WIPO		

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	EA						
	EB						
	EC						
	ED						
	EE						
	EF						
	EG						

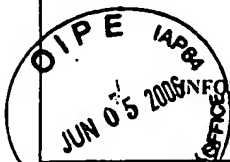
## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
<i>u</i>	EK	1 215 669 A2	06/19/02	EP		
<i>u</i>	EL	1365108 A	08/21/02	CN (+ Abstract in English)		
<i>u</i>	EM	2002-329348	11/15/02	JP (+ Abstract in English)		
<i>u</i>	EN	2003-13201	01/15/03	JP (+ Abstract in English)		
<i>u</i>	EO	2003-178448	06/21/03	JP (+ Abstract in English)		
<i>u</i>	EP	2003-260874	09/16/03	JP (+ Abstract in English)		
<i>u</i>	EQ	2003-326848	11/19/03	JP (+ Abstract in English)		
<i>u</i>	ER	2004-20822	01/22/04	JP (+ Abstract in English)		
<i>u</i>	ES	2004-30891	01/29/04	JP (+ Abstract in English)		
<i>u</i>	ET	2004-39177	02/05/04	JP (+ Abstract in English)		
<i>u</i>	EU	2004-87073	03/18/04	JP (+ Abstract in English)		
<i>u</i>	EV	2004-111004	04/08/04	JP (+ Abstract in English)		
<i>u</i>	EW	2004-158134	06/03/04	JP (+ Abstract in English)		

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			FILING DATE August 7, 2003	GROUP ART UNIT 2655

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>m</i>	AA	5,194,363	03/16/93	Yoshioka et al.	430	271	
<i>m</i>	AB	5,325,351	06/28/94	Uchiyama et al.	369	275.1	
<i>m</i>	AC	5,414,451	05/09/95	Sugiyama et al.	347	258	
<i>m</i>	AD	5,948,496	09/07/99	Kinoshita et al.	428	64.1	
<i>m</i>	AE	6,231,945	05/15/01	Miyamoto et al.	428	64.1	
<i>m</i>	AF	6,266,299	07/24/01	Oshima et al.	369	13	
<i>m</i>	AG	6,355,326	03/12/02	Lee et al.	428	64.1	
<i>m</i>	AH	6,449,239	09/10/02	Uno et al.	369	275.1	
<i>m</i>	AI	6,636,477	10/21/03	Miyamoto et al.	369	286	
<i>m</i>	AJ	6,656,559	12/02/03	Mizushima et al.	428	64.1	
<i>m</i>	AK	6,788,635	09/07/04	Aratani et al.	369	100	
<i>m</i>	AL	6,805,935	10/19/04	Ashida et al.	428	64.1	
<i>m</i>	AM	6,807,142	10/19/04	Nagata et al.	369	275.2	
<i>m</i>	AN	6,841,218	01/11/05	Hosoda et al.	428	64.1	
<i>m</i>	AO	6,982,111	01/03/06	Mizushima et al.	428	64.1	
<i>m</i>	AP	7,002,887	02/21/06	Kakiuchi et al.	369	59.12	
<i>m</i>	AQ	2001/0021160	09/13/01	Shuy et al.	369	100	
<i>m</i>	AR	2002/0060979	05/23/02	Tsukuda et al.	369	275.4	
<i>m</i>	AS	2003/0086359	05/08/03	Lee et al.	369	275.3	
<i>m</i>	AT	2003/0165111	09/04/03	Flynn	369	288	
<i>m</i>	AU	2003/0224215	12/04/03	Kondo et al.	428	694	

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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<i>u</i>	BA	2004/0001418	01/01/04	Shinotsuka et al.	369	111	
<i>u</i>	BB	2004/0018334	01/29/04	Nee	428	64.1	
<i>u</i>	BC	2004/0027973	02/12/04	Aoshima et al.	369	121	
<i>u</i>	BD	2004/0038080	02/26/04	Inoue et al.	428	694 SC	
<i>u</i>	BE	2004/0076907	04/22/04	Inoue et al.	430	270.12	
<i>u</i>	BF	2004/0110086	06/10/04	Kakiuchi et al.	430	270.12	
<i>u</i>	BG	2004/0174804	09/09/04	Kakiuchi et al.	369	275.4	
<i>u</i>	BH	2004/0191685	09/30/04	Kakiuchi et al.	430	270.11	
<i>u</i>	BI	2004/0241581	12/02/04	Kakiuchi et al.	430	270.12	
<i>u</i>	BJ	2005/0018590	01/27/05	Inoue et al.	369	275.2	
<i>u</i>	BK	2005/0018591	01/27/05	Inoue et al.	369	275.2	
<i>u</i>	BL	2005/0018592	01/27/05	Inoue et al.	369	275.2	
<i>u</i>	BM	2005/0047301	03/03/05	Inoue et al.	369	94	
<i>u</i>	BN	2005/0047302	03/03/05	Inoue et al.	369	94	
<i>u</i>	BO	2005/0047303	03/03/05	Inoue et al.	369	94	
<i>u</i>	BP	2005/0047304	03/03/05	Inoue et al.	369	94	
<i>u</i>	BQ	2005/0047305	03/03/05	Inoue et al.	369	94	
<i>u</i>	BR	2005/0048249	03/03/05	Inoue et al.	428	64.4	
<i>u</i>	BS	2005/0052194	03/10/05	Kister et al.	324	755	
<i>u</i>	BT	2005/0074306	04/07/05	Montresor	409	179	
<b>OTHER PRIOR ART</b> (Including Author, Title, Date, Pertinent Pages, Etc.)							
<div style="display: flex; justify-content: space-between;"> <div style="width: 10%;"> <div style="border: 1px solid black; width: 40px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 20px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; width: 40px; height: 20px; margin-bottom: 5px;"></div> </div> <div style="width: 80%;"> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> <div style="border: 1px solid black; height: 40px; margin-bottom: 5px;"></div> </div> </div>							
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